

## Scopes of the Claims

1. A design parameter managing method for managing design parameters used respectively in a plurality of different CAD systems, characterized by that:

arbitrary design parameters among the design parameters used respectively in the plurality of different CAD systems are made to be a virtually shared state among the plurality of different CAD systems; and

the design parameters in the virtually shared state are managed independently from the design parameters in no virtually shared state.

2. A design parameter managing system for managing design parameters used respectively in a plurality of different CAD systems, characterized by having:

a setup means for setting up arbitrary design parameters among the design parameters used respectively in the plurality of different CAD systems into a virtually shared state; and

a managing means for managing independently the design parameters in the virtually shared state set up by the setup means from the design parameters in no virtually shared state.

3. A design parameter managing system for managing design parameters used respectively in a plurality of different CAD systems, characterized by having:

a registration means for registering arbitrary design parameters among the design parameters used respectively in the plurality of different CAD systems as the shared parameters among the plurality of different CAD systems to a database;

a history managing means for managing a history between the design parameters used respectively in the plurality of different CAD systems and the shared parameters registered to the database by means of the registration means; and

a finite difference managing means for managing the finite differences between the design parameters used respectively in the plurality of different CAD systems and the shared parameters registered to the database by the registration means based on the history managed by the history managing means.

4. The design parameter managing system as claimed in claim 3, characterized by further having:

a notification means for notifying the finite differences managed by the finite difference managing means to the plurality of different CAD systems.

5. The design parameter managing system as claimed in claim 2, characterized by further having:

a preparation means of capable of preparing three-dimensional data in a condition wherein logical electric design information has been correlated to physical three-dimensional configuration information.

6. The design parameter managing system as claimed in

claim 2, characterized by further having:

a means for preparing and managing an electronic parts data library which has been modeled in a three-dimensional configuration; and

the three-dimensional electronic parts data library being arranged so as to have parts origin information and material physical property information and so as to correlate the parts origin information and the material physical property information with the shared parameters.

7. A program for executing the design parameter managing method as claimed in claim 1 with respect to a computer.

8. A program to function a computer as the design parameter managing system as claimed in any one of claims 2, 3, 4, 5 and 6.

9. A computer readable recording medium in which the program as claimed in any one of claims 7 and 8 has been recorded.